

The new technology for
paddy fields by direct seeding

稻鐵人[®]

Dao Tie Ren[®]

An Epochal Technology of Seed Coating

Dao Tie Re[®], is a new technology coating material for rice paddy fields by direct seeding (Patent Applied For).

Rice seeds are heatless and anti-rotten after coating. Unnecessary water spray for heat dissipation during the process of coating; therefore, pre-germinated seeds can be coated and the germination stage will be shortened after sowing.

Safe and simple to use are the promised benefits of Dao Tie Ren[®].



Characteristic of Dao Tie Ren

Suggested Care of Paddy Fields

Application of Dao Tie Ren

Operation of Dao Tie Ren

Real Cultivation of Dao Tie Ren

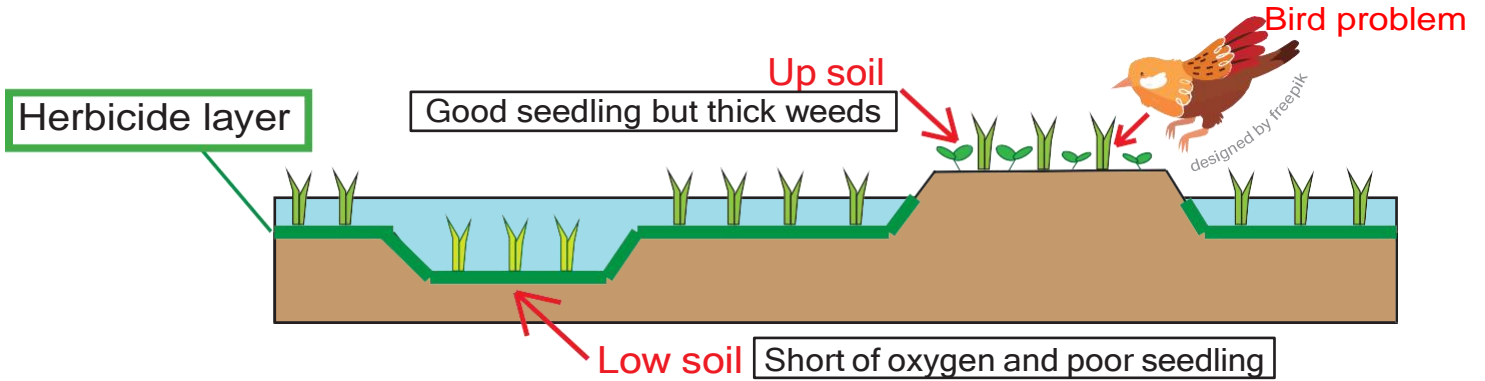


Sou Le Enterprise Co., Ltd.
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Suggested care for Paddy Field - Land Preparation

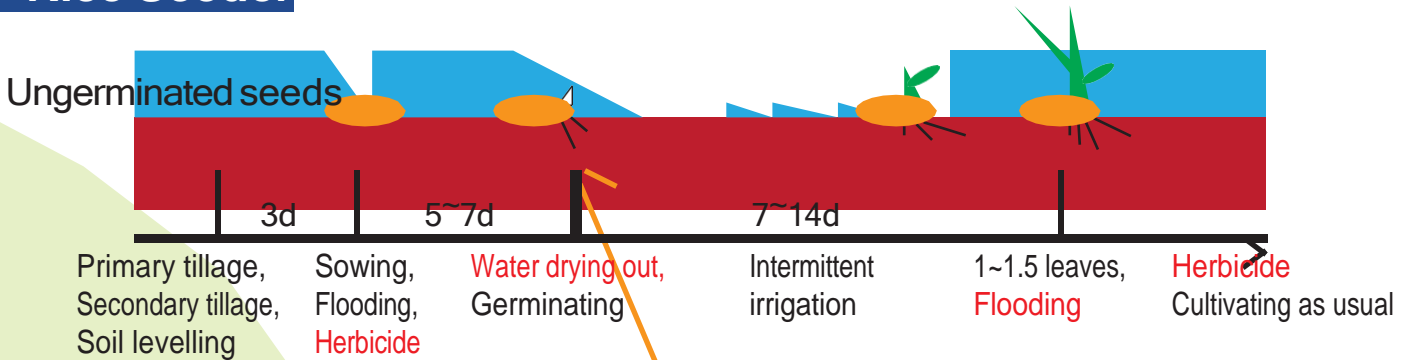
Paddy Field Leveling

Paddy field leveling is necessary and important for direct seeding to improve the stability of the growth of rice, productivity, and the effectiveness of herbicides. If the paddy field is uneven, seeds in low soil areas are easily buried and short of oxygen which causes poor germination.

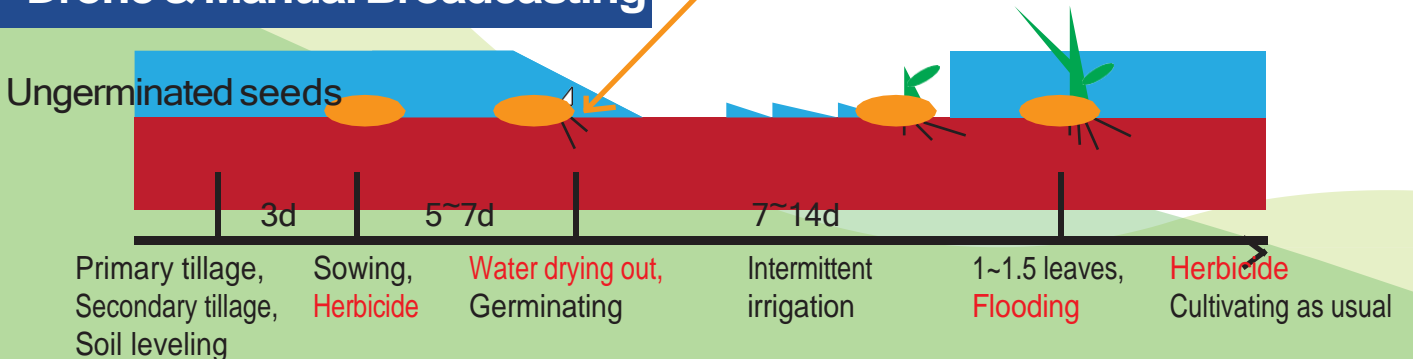


Suggested care for Paddy Field - Water control after sowing

Rice Seeder



Drone & Manual Broadcasting



For the second-crop rice harvest, it is suggested to use **germinated seeds**

Application of Dao Tie Ren[®]

● Preparation

- ① Dao Tie Ren[®] (Net 6kg PE bag)
- ② Water (for granulation)* in order to accelerate hardness, 40 °C warm water is preferred

● Place

- ① Workplace: cool and dry place with good ventilation
- ② Material storage place: cool and dry place with good ventilation

● Seed preparation

- ① Seeds should be disinfected (Not suggested to deal with high temp. because Dao Tie Ren[®] doesn't generate heat).
- ② Seeds (even pre-germinated) prepared with 80~90 °C accumulated temp. can be granulated.

● Equipment and tools

- ① Concrete mixer (Tilting drum mixer with speed control is suggested)
- ② Hand sprinkler
- ③ Scale
- ④ Scraper / Small shovel
- ⑤ Bucket with lid (for mixing material)
- ⑥ Protective equipments (gloves, mask, goggle)
- ⑦ PP/PE mesh bag

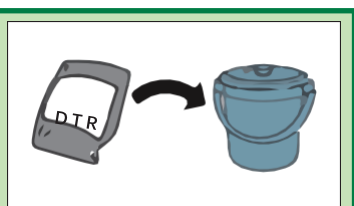
● Formula Ratio

Do not change the formulated ratio for the best result

Rice (dry)		Dao Tie Ren [®]
10 kg	:	6 kg
1	:	0.6

Operation of Dao Tie Ren[®]

***Please read the instructions carefully before operation**



1. Dump a pack of Dao Tie Ren[®] in a plastic bucket with lid. Mix until the powder is even. Use a scale and take 10% of the DTR material out (for adjustment ratio in case of spraying too much water during granulation).
2. Put the weighted rice into the still mixer (for safety, please ensure the mixer is stopped).
3. **First Placement:**
Start the mixer after the rice is inputted and use a small shovel to input coating material into the mixer (about 1/3 portion). To start granulation, adjust the mixer to 45° and use a sprinkler to spray water. Then, adjust the speed to have the rice coated evenly. Water volume: please spray with a small volume and high frequency and do not spray too much water which will cause agglomeration and poor coating results. If so, please crush it until there's no more agglomeration. While mixing, ensure there's no residue in the bottom of the mixer.
4. **Second Placement:**
Ensuring no residue in the mixer then input 1/3 of coated material into the mixer and spray water for the second run.
5. **Third Placement:**
Ensuring no residue in the mixer and finish the last coating procedure in the mixer. Granulation is completed with black sparkle on seeds and no powder is remained for dancing-rice-noise.

-CAUTION-

Wear a mask and goggle during operation and work in good ventilating place

● Coated Rice Seeds storage

- ◇ Dry in shade for 1~2 days after leveling the rice on PP/PE mesh bags or water-proof cloth (plants), and store in a cool and dry place.
- ◇ After drying in shade, pre-germinated seeds should be stored in fridge under 14°C and used within 60 days.

Actual Cultivation of Dao Tie Ren ®

Field 1, Daya, Taichung (6 Sep., 2020)

Type: Tainan 16 (Koshihikari) Date: Sowed on Jul. 14, 2020

Equipment: YANMAR rice seeder(Direct seeding) Area: 2a



Field 2, Daya, Taichung (25 Sep., 2020)

Type: Tainan 16 (Koshihikari) Date: Sowed on Jul. 14, 2020

Equipment: YANMAR rice seeder(Direct seeding) Area: 2a



Guanyin, Taoyuan (21 Oct., 2020)

Type: Tainan 11 (Japonica) Date: Sowed on Jul. 15, 2020

Equipment: YANMAR rice seeder(Direct seeding) Area: 2a



Terraced field, Shilin (13 Aug., 2020)

Type: Type: Taiken 14 Date: Sowed on Mar. 17, 2020

Equipment: Spraying Drone(Direct seeding) Area: 2a



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